





Test Report No. SDFS1907004087FF Date: Jul.18, 2019 Page 1 of 5

The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description : POLYESTER FIBER ACOUSTIC PANEL

Color : WHITE Thickness : 24mm

Composition : POLYESTER FIBER

Density : 3200g/m² Sample Receiving Date : Jul.08, 2019

Test Performing Date : Jul.08, 2019 to Jul.18, 2019

Test Result Summary

Result(s)
Classification: B-s1, d0
√ 3

Signed for and on behalf of Shunde Branch SGS-CSTC Co., Ltd.

Irvette Zhang Approved signatory



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TESTS AND RESULTS

Test Conducted:

This test is conducted as per EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements-Part 1: Classification using data from reaction to fire tests. And the test methods as following:

- EN 13823:2010+A1:2014 Reaction to fire tests for building products-Building products excluding floorings exposed to the thermal attack by a single burning item.
- EN ISO 11925-2:2010+AC:2011 Reaction to fire tests-Ignitability of building products subjected to direct impingement of flame-Part 2: Single-flame source test.

Mounting and fixing (For EN 13823:2010+A1:2014):

The specimen was tested free standing at a distance of at least 80 mm from the backing board. Both wings were clamped at the top and the bottom.

Test Results:

Test method	Parameter	Number of tests	Results	
EN 13823:2010+A1:2014	FIGRA _{0.2MJ} (W/s)		45.5	
		FIGRA _{0.4MJ} (W/s)	1	45.5
	THR _{600s} (MJ)		1.6	
	SMOGRA (m ² /s ²)	3	2.2	
	TSP600s (m ²)	1	15.9	
	LFS < edge of specimen		Yes	
	Flaming particles or droplets	1 – – –	No	
EN ISO 11925-	Fs ≤ 150 mm		Yes	
2:2010+AC:2011 Exposure = 30 s	Ignition of the filter paper	6	No	

Remark:

FIGRA-Fire growth rate index used for classification purposes [W/s] For the classes A2 and B, FIGRA0.2MJ For the classes C and D, FIGRA0.4MJ LFS-Lateral flame spread [m] THR600s-Total heat release within 600 s [MJ] SMOGRA-Smoke growth rate [m²/s²] TSP600s-Total smoke production within 600 s [m²]



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Classification and direct field of application:

This classification has been carried out in accordance with EN 13501-1:2007+A1:2009.

Classification:

Fire behaviour		Smoke	production		Flaming	droplets
В	8,50	S	1	,	d	0

Remark:

The classes with their corresponding fire performance are given in Table 1.

Reaction to fire classification is based on the 7-step scale of A1 to F, where A1 is good and F is bad

Statement:

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

Warning:

This classification report does not represent type approval or certification of the product.

The test laboratory has, therefore, play no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.



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Table 1 — Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products.

Class	Test method(s)	Classification criteria	Additional classification		
A1 -	EN ISO 1182 a and		△T≤30°C, and △m≤50%, and t _r =0(i.e. no sustained flaming)	120		
	A1	EN ISO 1716		PCS≤2.0MJ/kg ^a and PCS≤2.0MJ/kg ^{bc} and PCS≤1.4MJ/m ² ^d and PCS≤2.0MJ/kg ^e	(*)	
20020 20020	EN ISO 1182 a or	000000	△ <i>T</i> ≤50°C, and △ <i>m</i> ≤50%, and t≤20 s	120		
	EN ISO 1716	and	PCS≤3.0MJ/kg ³ and PCS≤4.0MJ/m ² and PCS≤4.0MJ/m ² d and PCS≤3.0MJ/kg ^e	858		
	EN 13823		FIGRA≤120W/s and LFS <edge and<br="" of="" specimen="">THR600s≤7.5MJ</edge>	Smoke production ^f and Flaming droplets/particles ^g		
В	EN 13823 a	ind	FIGRA≤120W/s and LFS <edge and<br="" of="" specimen="">THR600s≤7.5MJ</edge>	Smoke production ^f and Flaming droplets/particles ^g		
	EN ISO 11925-2 1 Exposure =30s		Fs≤150mm within 60 s			
С	EN 13823 and		FIGRA≤250W/s and LFS <edge and<br="" of="" specimen="">THR600s≤15MJ</edge>	Smoke production ^f and Flaming droplets/particles ^g		
EN ISO 1192 Exposure=3			Fs≤150mm within 60 s			
D -	EN 13823 a	ind	FIGRA≤750W/s	Smoke production ^f and Flaming droplets/particles ^g		
	EN ISO 11925-2 Exposure=30s		Fs≤150mm within 60 s			
E	EN ISO 11925-2 Exposure =159	-	Fs≤150mm within 20 s	flaming droplets/particles h		
F	No performance determined					



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- ^a For homogeneous products and substantial components of non-homogeneous products.
- For any external non-substantial component of non-homogeneous products.
- Alternatively, any external non-substantial component having a PCS ≤ 2,0 MJ/m², provided that the product satisfies the following criteria of EN 13823: FIGRA ≤ 20 W/s, and LFS < edge of specimen, and THR_{600s} ≤ 4.0 MJ, and s1, and d0.
- ^d For any internal non-substantial component of non-homogeneous products.
- e For the product as a whole.
- In the last phase of the development of the test procedure, modifications of the smoke measurement system have been introduced, the effect of which needs further investigation. This may result in a modification of the limit values and/or parameters for the evaluation of the smoke production.
- s1 = SMOGRA ≤ 30m²/s² and TSP600s ≤ 50m²; s2 = SMOGRA ≤ 180m²/s² and TSP600s ≤ 200m²; s3 = not s1 or s2
- gd0 = No flaming droplets/ particles in EN 13823 within 600 s;
- d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s;
- d2 = not d0 or d1.
- Ignition of the paper in EN ISO 11925-2 results in a d2 classification.
- h Pass = no ignition of the paper (no classification);
- Fail = ignition of the paper (d2 classification).
- Under conditions of surface flame attack and, if appropriate to the end-use application of the product, edge flame attack.

SAMPLE INFORMATION AND PICTURES

About 24mm Thickness: Area density: About 3.38kg/m²







After Test (EN 13823)

End of Report



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